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BULLETIN
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A List of Cyperaceæ

Collected by the late Mr. S. B. Buckley from 1878 to 1883 in the Valley of the Lower Rio Grande, in Texas and Northern Mexico.

By N. L. BRITTON.

Cyperus flavicomus, Torr.—A large form with rays five inches long, 30-45-flowered spikelets, and scales of a rich chestnut-red color, the nuts persistent.

Cyperus microdontus, Torr., var. *Texensis*, Torr.—I do not agree with Mr. C. B. Clarke* in reducing this plant to a variety of the tropical *C. polystachyus*, Röttb.

Cyperus erythrorhizos, Muhl.—A form only three or four inches high, caespitose; resembling the var. *pumilus*, Engelm., in Torrey Herbarium, from St. Louis, to which I refer also the *C. occidentalis*, Torr., from the Northwest coast by Dr. Hooker, and from the mouth of the Willamette River by the Howell brothers.

Cyperus erythrorhizos, Muhl.—A large, erect form, with rays and involucre leaves also erect; otherwise hardly differing from the type. I refer to this Nos. 876, 2,306, and 3,223 of the Herbarium Berlandierianum, Texano-Mexicanum, and, with some hesitation, a specimen collected by Dugès at Guanajuato,† the “tule grande” of the Mexicans. These forms may later be best considered as a variety to be known as var. *ERECTUS*.

Cyperus aristatus, Röttb. (*C. inflexus*, Muhl.)

Cyperus cyrtolepis, Torr. & Hook.

Cyperus rufescens, Torr. & Hook., var. *DENTICARINATUS*, n. var. Scales with a prominent keel, which is armed with small hyaline teeth near its apex. Stamen solitary. Umbel appearing somewhat lateral.

Cyperus Drummondii, Torr. & Hook.

Cyperus aureus, HBK., i., 205, (?).—Agreeing quite well with the description, and the same as a fragment so named in Herb. Torrey, collected at Havana by D. B. Greene. The present specimens have the following characters: Culm one to two feet high, smooth. Leaves about the length of the culm, three lines wide, smooth. Involucre of about six, much elongated leaves, and several short ones. Umbel of about ten rays, two or three inches long, and several nearly sessile ones, the stronger rays compound, involucrellate. Heads composed of 6-14, linear, obtuse spikelets, which are 3 or 4 lines long. Scales ovate, mucronate, loosely spreading, and curving upwards, of

* *Journ. Linn. Soc.* xxi., 55.

† See Mr. Watson's List in *Proc. Amer. Acad.*, xviii., 170.

a bright yellowish-brown color. Achenium shorter than the scale, oblong, acute, sharply triangular in section. Style somewhat lengthened, 3-cleft. Stamens 3.

Cyperus filiculmis, Vahl.

Cyperus Schweinitzii, Torr.

Cyperus Fendlerianus, Bœckel., in *Linnaea*, xxxv., 520.—The species is distinguished from *C. Schweinitzii*, Torr., by the very short-rayed heads forming a dense, compact inflorescence, and the strongly mucronate scales, whose tips are horizontal or downwardly curved. It is No. 875, Fendler, *Plantæ Novæ-Mexicanæ*, and was collected also at Silver City, N. M., by Dr. H. H. Rusby in 1880.

Cyperus BUCKLEYI, *n. sp.*—Culm quite stout, triangular, smooth, one to two feet high. Leaves long, linear, about 3 lines wide, smooth. Involucre of about four, mostly elongated, linear, smooth leaves. Rays of the umbel about five to seven, the longest about four inches in length. Spikelets broadly linear, .5 to .75 inch long, 15 lines wide, 12–20-flowered, clustered in loose heads of 12–30 at the ends of the rays, spreading or in part reflexed, their axes zig-zag, not winged. Glumes oblong, or oblong-ovate, obtusish or truncate, with a dark keel and lighter brown, somewhat scarious margins, prominently 9–11-nerved. Achenium obovate, very sharply triangular, obtuse, with a short point. Stamens 3.

Cyperus articulatus, L., var. *CONGLOMERATUS*, *n. var.*—Spikelets 1–15 inches long, in dense clusters on the ends of short rays, showing a compact, glomerate inflorescence two to three inches in diameter.

Cyperus dissitiflorus, Torr.

Cyperus esculentus, L. (*C. phymatodes*, Muhl.).—Several forms; among them, one with the short rays and spikelets erect.

Cyperus strigosus, L.—A slender form with the spikelets disposed in loose clusters, and diverging at right angles from the axes.

Cyperus setigerus, Torr. & Hook.

Cyperus lutescens, Torr. & Hook.—The spikelets in these specimens are fewer-flowered than the original description calls for, but otherwise they agree very well with it, and with the specimens in Herb. Torrey and in Dr. Gray's Herbarium.

Cyperus Michauxianus, Schultes.—Numerous specimens; among them, one with more spreading scales, and answering to the description of *C. ferruginescens*, Bœckel.*; also a specimen with pale brown spikelets.

Cyperus OXYCARIOIDES, *n. sp.*—Culm about two feet high, smooth, bearing on its lower portion about three elongated, linear leaves (8–10 inches long, 3 lines wide), which are slightly rough-margined. Involucre of about six elongated leaves, resembling those of the culm. Inflorescence of a single, terminal, dense, globular head, about an inch in diameter, composed of a very great number of sharply acute, teretish, about five-flowered spikelets, one-eighth to one-quarter inch in length. Scales oblong-ovate, acutish. Achenium triangular, oblong, acute, about one-half the length of the scale, (one-half line long.) Stamens 3. Resembling the genus *Oxycaryum*, Rees, in outward appearance.

* *Linnaea*, xxxvi., 396.

Cyperus ferox, Rich.—Agreeing with the description except in the darker brown spikelets. I have seen no authentic specimens, and refer Mr. Buckley's to this species with some doubt.

Cyperus Baldwinii, Torr.

Cyperus ovularis, Torr.

Cyperus cylindricus, Britton, in BULL. TORR. BOT. CLUB., vii., 48.

Cyperus flavus, Vahl. (*C. flavomariscus*, Griseb.)

Cyperus uniflorus, Torr. Also a form with 3-5-flowered spikelets.

Cyperus uniflorus, Torr., var. *PUMILUS*, *n. var.*—Culm about three inches high, equalling the leaves. Inflorescence of a single, occasionally slightly compound head of from 8 to 20 spikelets, mostly composed of three glumes; the lower persistent, empty; the middle one fertile; the upper sterile, subulate. I refer here also No. 350, Palmer, Indian Territory.

Fuirena squarrosa, Michx. Also var. *MACROSTACHYA*, *n. var.*—Spikes 8 to 12 lines long, lanceolate, stout. Perianth-scales tipped with a downwardly-barbed awn of their own length, or longer. Plant one to two feet high, stout; leaves broadly linear, nearly smooth, some of them slightly ciliate towards the base.

Hemicarpha subsquarrosa, Rees.

Heliocharis equisetoides, Torr.

Heliocharis obtusa, Schultes.—A form with fewer scales.

Heliocharis palustris, R. Br.—Several forms, including the var. *calva*, Gray, with bristles absent, and one with very large tubercles on the achenia.

Heliocharis capitata, R. Br. (The β , Torr. Cyp. p. 305.)

HELIOCHARIS TEXANA, *n. sp.*—Culm very slender, less than half a line wide, three-angled, apparently erect. Spikes linear, slightly compressed or terete, one line wide, .5 to .75 inch long, acutish. Scales very numerous, the lowest ovate and obtusish, the others ovate-lanceolate and acute, all with broad hyaline margins. Achenium obovoid, contracted at the neck, tipped with a conical, acute tubercle. Style deeply three-cleft, roughened. Stamens three, longer than the achenium. Bristles none.

Heliocharis acicularis, R. Br.—A large form.

Scirpus pungens, Vahl.—Specimens with 3-cleft styles, and bristles as long as the achenia.

Scirpus validus, Vahl.

Scirpus maritimus, L.

Scirpus lineatus, Michx.

Fimbristylis spadicea, Vahl., var. *castanea*, Gray.

Fimbristylis laxa, Vahl.

Fimbristylis autumnalis, R. & S.

Fimbristylis capillaris, Gray.

Fimbristylis congesta, Torr.

Dichromena leucocephala, Michx.

Phoradendron.—Dr. Britton's note in the July BULLETIN reminds me that twenty years ago I was cognizant of the presence of a large bunch of *Phoradendron* on an old *Liquidambar*, at the roadside, about three and a half miles north of Keyport, N. J. It was on